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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/024,717	12/21/2001	Robert Aarts	1076.41035X00	5924
20457	7590	10/08/2004	EXAMINER	
ANTONELLI, TERRY, STOUT & KRAUS, LLP 1300 NORTH SEVENTEENTH STREET SUITE 1800 ARLINGTON, VA 22209-9889			TRAN, QUOC A	
			ART UNIT	PAPER NUMBER
			2176	

DATE MAILED: 10/08/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No. 10/024,717	Applicant(s) AARTS ET AL. 	
	Examiner Quoc A. Tran	Art Unit 2176	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 21 December 2001.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-18 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date: _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                    | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date: _____ | 6) <input type="checkbox"/> Other: _____  |

### **DETAILED ACTION**

1. This action is responsive to application filed 12/21/2001.
2. Claims 1-18 are pending. Claims 1, 7 and 11 are independent claims.
3. If a copy of a provisional application listed on the bottom portion of the accompanying Notice of References Cited (PTO-892) form is not included with this Office action and the PTO-892 has been annotated to indicate that the copy was not readily available, it is because the copy could not be readily obtained when the Office action was mailed. Should applicant desire a copy of such a provisional application, applicant should promptly request the copy from the Office of Public Records (OPR) in accordance with 37 CFR 1.14(a)(1)(iv), paying the required fee under 37 CFR 1.19(b)(1). If a copy is ordered from OPR, the shortened statutory period for reply to this Office action will not be reset under MPEP § 710.06 unless applicant can demonstrate a substantial delay by the Office in fulfilling the order for the copy of the provisional application. Where the applicant has been notified on the PTO-892 that a copy of the provisional application is not readily available, the provision of MPEP § 707.05(a) that a copy of the cited reference will be automatically furnished without charge does not apply.

### ***Claim Objections***

4. Claim 4, objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to

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cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form, see Claim 2, page 16,

" 4. The method of claim 4", Examiner reads as: " 4. The method of claim 1" instead of claim 4. Examiner assumes this is a typo. Appropriate correction is required.

***Claim Rejections - 35 USC § 103***

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. **Claims 1-3 are rejected under 35 U.S.C. 103(a) as being unpatentable by Omoigui US Pub No. 2003/0126136 A1 issued 007/03/2003 filed 06/24/2002 Provisional No. 60/300,385 filed 06/22/2001 (hereinafter '136), in view of Fascenda US Patent No. 6,560,604 B1 issued 05/06/2003 filed 03/10/2000 (hereinafter '604).**

**In regard to independent claim 1, "A method of accessing functionalities in hypermedia to be parsed and rendered by a user agent... the method comprising: parsing the hypermedia collating data corresponding to those elements in the hypermedia that support said predetermined attribute, and rendering a display of the collated data corresponding to those elements in the hypermedia", as taught by '136 at**

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page 10, paragraph [0223] (i.e.... Hypertext Transfer Protocol (HTTP) is an application-level protocol for distributed, collaborative, hypermedia information systems ...), also as taught by '136 at page 11, paragraph [0249] (i.e.... Natural Language Parser. Parsing ... natural language queries and can translate them to structured semantic information queries ...), also as taught by '136 at page 11, paragraph [0249] (i.e.... Natural Language Parser. Parsing ... natural language queries and can translate them to structured semantic information queries ...), also as taught by '136 at page 13, paragraphs [0276]-[0277] (i.e.... Semantic Results Markup Language (SRML)... render the same SRML in completely different ways, based on the current "skin" that has been selected or applied by the user ... The "skin" then converts the SRML to a presentation-ready format such as XHTML... SRML is a meta-schema, meaning that it is a container format that can include data for different information object types (e.g., documents, email, people, events, etc.)...)

'136 does not explicitly teach, *"the hypermedia including at least one element that has a predetermined attribute whereby a dynamically assignable keyboard shortcut for the user agent actuates a predetermined functionality associated with the element"*, however, as taught by '604 at col. 7, lines 10-15 (i.e.... the hypermedia system...) also as taught by '604 at col. 11, lines 40-50 (i.e.. such as keyboard shortcuts (e.g., press "W" for weather service requests); branching action definitions 404c, allowing the user to branch from the current template and display page to a next template and display page linked with the current template...).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have modified '604 into '136 to provide a way to include the feature, wherein the hypermedia including at least one element that has a predetermined attribute whereby a dynamically assignable keyboard shortcut for the user agent actuates a predetermined functionality associated with the element. One of ordinary skill in the art would have been motivated to perform such a modification to optimized the advantage of the hypermedia system, wherein users can access a web site using general-purpose computers, wireless hand held computing devices, Internet capable wireless phones (e.g., a Wireless Application Protocol (WAP) Internet enabled telephone), and the like, as taught in '604 col. 7, lines 5-25 (i.e....useful in data network ... accessing information on the Internet ... The web is a distributed, hypermedia system...).

**In regard to dependent claim 2,** *"wherein the predetermined attribute comprises accesskey operability for assigning a particular control key for the user agent to the element"*, also as taught by '136 at page 42, paragraph [0788] (i.e....The framework requires certain icons to be used (also for consistency), and for these to have regular names or element types, which will allow the Results Browser to find and modify them as needed. In addition, the Results Browser can create and raise events to indicate the state changes. The template-generated script can respond to these events, and display the associated information as desired...).

**In regard to dependent claim 3,** *"rendering the hypermedia, and operating a control of the user agent to render the collated data instead of the hypermedia"*, as

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taught by '136 at page 13, paragraphs [0276]-[0277] (i.e.... Semantic Results Markup Language (SRML)... render the same SRML in completely different ways, based on the current "skin" that has been selected or applied by the user ...The "skin" then converts the SRML to a presentation-ready format such as XHTML... SRML is a meta-schema, meaning that it is a container format that can include data for different information object types (e.g., documents, email, people, events, etc.)...).

**In regard to dependent claim 4, “making a selection from the collated data whereby to select the functionality”,** as taught by '604 at col. 8, lines 24-30 (i.e.... user (also referred to as subscriber) of client device 108, information received via communications system 100. Display 210 can also display lists and/or menus from which a subscriber can make selections and perform various functions ....).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have modified '604 into '136 to provide a way to include the feature, wherein making a selection from the collated data whereby to select the functionality in the hypermedia system. One of ordinary skill in the art would have been motivated to perform such a modification to optimized the advantage of the hypermedia system, wherein users can access a web site using general-purpose computers, wireless hand held computing devices, Internet capable wireless phones (e.g., a Wireless Application Protocol (WAP) Internet enabled telephone), and the like, as taught in '604 col. 7, lines 5-25 (i.e.... useful in data network ... accessing information on the Internet ... The web is a distributed, hypermedia system...).

**In regard to dependent claim 5**, “*parsing and collating is performed by a browser*”, as taught by ‘136 at page 10, paragraph [0223] (i.e.... Hypertext Transfer Protocol (HTTP) is an application-level protocol for distributed, collaborative, hypermedia information systems ...), also as taught by ‘136 at page 34, paragraph [0659] (i.e.... The Natural Language Parser (NLP) preferably converts natural language text to either an API call that the SQP understands or to raw SQL (or a similar query format) that can be processed by the database. The Natural Language Parser is passed text directly from the semantic browser ...).

**In regard to dependent claim 6**, “*wherein the hypermedia comprises an XHTML document*”, as taught by ‘136 at page 23, paragraphs [0426] (i.e.... The “skin” then converts the SRML to a presentation-ready format such as XHTML...).

**In regard to independent claim 7**, is directed to a browser for performing the method of claim 1, and is similarly rejected along the same rationale.

**In regard to dependent claim 8**, is directed to a browser for performing the method of claim 6, and is similarly rejected along the same rationale.

**In regard to dependent claim 10**, is directed to a browser for performing the method of claim 2, and is similarly rejected along the same rationale.

**In regard to independent claim 11**, is directed to a device for performing the method of claim 1, and in further view of the following, and is similarly rejected along the same rationale.

“...user interface including a display device and a keyboard with a plurality of keys operable in a first mode to enter associated alphanumeric data... the processor



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and the display device being operable in a first display configuration to display the hypermedia... and form an options list containing data associated with the identified elements, and the display device being operable in a second display configuration to display the options list", as taught by '604 at col. 8, lines 10-35 (i.e.... a microprocessor 208, a display 210 and a keypad 212. ... display lists and/or menus from which a subscriber can make selections and perform various functions .... Keypad 212 can include as few as one button, but may also include an entire alphanumeric keypad, touch pad, or can be integrated with a display, such as a touch-screen display. Client device 108 also includes a memory 214 that can store software and/or data...) also as taught by '604 col.11, lines 45-50 (i.e.. branching action definitions 404c, allowing the user to branch from the current template and display page to a next template and display page linked with the current template; and external references 404d, such as URLs...).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have modified '453 into '136 to provide a way to include the feature, wherein the user interface including a display device and a keyboard with a plurality of keys operable in a first mode to enter associated alphanumeric data ... the processor and the display device being operable in a first display configuration to display the hypermedia... and form an options list containing data associated with the identified elements, and the display device being operable in a second display configuration to display the options list. One of ordinary skill in the art would have been motivated to perform such a modification to optimized the advantage of the

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hypermedia system, wherein users can access a web site using general-purpose computers, wireless hand held computing devices, Internet capable wireless phones (e.g., a Wireless Application Protocol (WAP) Internet enabled telephone), and the like, as taught in '604 col. 7, lines 5-25 (i.e.....useful in data network ... accessing information on the Internet ... The web is a distributed, hypermedia system...).

**In regard to dependent claim 12**, is directed to a device for performing the method of claims 2-3, and is similarly rejected along the same rationale.

**In regard to dependent claims 13-15**, incorporate substantially similar subject matter as cited in claims 11 above, and is similarly rejected along the same rationale.

**In regard to dependent claim 16**, is directed to a device for performing the method of claim 1, and is similarly rejected along the same rationale.

**In regard to dependent claim 17**, is directed to a device for performing the method of claim 4, and is similarly rejected along the same rationale.

**In regard to dependent claim 18**, *"wherein numbering associated with the accesskey keyboard shortcut function is hidden in the display of hypermedia in the first display configuration"*, as taught by '604 at col.11, lines 40-50 (i.e.... such as menu pull-down actions and scroll-wheel shortcuts; keyboard action definitions 404b, such as keyboard shortcuts...).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have modified '604 into '136 to provide a way to include the feature, wherein numbering associated with the accesskey keyboard shortcut function is hidden in the display of hypermedia in the first display configuration. One of ordinary

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skill in the art would have been motivated to perform such a modification to optimized the advantage of the hypermedia system, wherein users can access a web site using general-purpose computers, wireless hand held computing devices, Internet capable wireless phones (e.g., a Wireless Application Protocol (WAP) Internet enabled telephone), and the like, as taught in '604 col. 7, lines 5-25 (i.e.....useful in data network ... accessing information on the Internet ... The web is a distributed, hypermedia system...).

**7. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable by Omoigui US Pub No. 2003/0126136 A1 issued 007/03/2003 filed 06/24/2002 Provisional No. 60/300,385 filed 06/22/2001 (hereinafter '136), in view of Fascenda US Patent No. 6,560,604 B1 issued 05/06/2003 filed 03/10/2000 (hereinafter '604), in further view of Schilit et al. US Patent No. 6,674,453 B1 issued 01/06/2004 filed 07/10/2000 (hereinafter '453).**

**In regard to dependent claim 9**, is directed to a browser for performing the method of claim 1, and in further view of the following, and is similarly rejected along the same rationale.

'136 and '604 do not explicitly teach, "*a mobile device including a browser*", however, as taught by '453 at col. 5, lines 5-16 (i.e..... Web Browser, referred to herein as "m-link"... display on the mobile device...).

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It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have modified '453 into '136 and '604 to provide a way to include the feature, wherein mobile device including a browser as claimed in claim 7. One of ordinary skill in the art would have been motivated to perform such a modification to make browsing the Web more feasible for handheld devices, as taught in '453 col. 2, lines 40-50 (i.e..... developed to make browsing the Web more feasible for handheld devices...).

### ***Conclusion***

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Shell et al USPAT- 6,339,780 B1 issued 01/15/2002 filed 05/06/1997

Mikhailov et al US Pub- 2003/0018714 A1 issued 01/23/2003 filed 07/16/2002

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quoc A. Tran whose telephone number is (703) 305-8781, **"After mid-Oct, 2004, the examiner can be reach at (571) 272- 4103"**. The examiner can normally be reached on Monday through Friday from 8:30AM to 5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph H. Feild can be reached on (703) 305-9792. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.


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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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**Quoc A. Tran**  
**Patent Examiner**  
**Technology Center 2176**  
**September 22, 2004**

  
**JOSEPH FEILD**  
**SUPERVISORY PATENT EXAMINER**